# Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

In the Matter of	)	
General Communications, Inc. Request for Waiver of Certain Requirements in the upper 6 GHz Bands	) ) )	WT Docket No. 16-209
	)	

To: The Commission

#### Ex Parte Comments of EIBASS

Engineers for the Integrity of Broadcast Auxiliary Services Spectrum (EIBASS) hereby respectfully submits its *ex parte* comments in the above-captioned public notice relating to a waiver request by General Communications, Inc. (GCI) for point-to-point microwave stations in the "upper 6 GHz bands" in Alaska.

### I. GCI Is Mistaken in Its Claim That Alaska Has No 7 GHz TV Pickup Stations

1. In its reply comments GCI makes the incorrect claim that Alaska has no 7 GHz TV Pickup stations; as was documented in the EIBASS reply comments, TV Pickup Station WQRU451 is authorized for the 6,875–7,125 MHz TV BAS band, with a continental United States operational area. This includes of all portions of Alaska more than 35 miles from the Canadian border. A copy of the WQRU451 license is attached, as Figure 1. Had GCI made a thorough search of the Commission's Universal Licensing System (ULS), it would have found this license, just as EIBASS did. Given GCI's own admission that it did not request waiver of Section 101.147(a), note 34, this is a fatal defect to their waiver request.

# II. Reservation of Two of the Ten 7 GHz TV BAS Band Channels Nation-wide Was Fundamental to Broadcasters Agreeing to Shared Use of That Band

2. At page 4 of its reply comments, GCI states "EIBASS contends that the FCC *should*<sup>1</sup> permanently set aside these channels<sup>2</sup> for exclusive BAS use, even if no licensee ever actually uses the channels and they lay fallow indefinitely." GCI seems not to understand that is exactly what the Commission did, in the WT Docket 10-153 rulemaking; that is, this is not a mere

<sup>&</sup>lt;sup>1</sup> Italicization added.

<sup>&</sup>lt;sup>2</sup> TV BAS Channels B5 (6,975–7,000 MHz) and B6 (7,000–7,025 MHz).

EIBASS suggestion, but rather a spectrum sharing decision (restriction) made by the Commission. The initial EIBASS comments even pointed out the pertinent paragraphs from the 2011 WT Docket 10-153 R&O/FNPRM/MO&O. Indeed, EIBASS' prudence in doing so is borne out by GCI's statement at page 7 of its reply comments that it would be an "extreme and novel burden" to require a party seeking a rule waiver or waivers to have to "familiarize themselves with not only the Commission's rules but also every FCC order that might have contained language relating to those rules." EIBASS submits that is exactly what a party seeking to overcome the high burden of a rule waiver had better do if it expects success based on answering opposition objections with sound arguments.

3. GCI further seems not to understand that these two 7 GHz TV BAS band channels (B5 and B6) are also available to fixed-link TV BAS stations (studio-to-transmitter link (STL) and Inter City Relay (ICR) stations), and thus its "lay fallow indefinitely" claim<sup>3</sup> is also incorrect.

### III. Likelihood of Major News Event in Alaska

4. GCI arrogantly claims that there is little likelihood of a major news event in Alaska; the possibility of a major news event in what is normally a category III or IV electronic news gathering (ENG) market<sup>4</sup> is exactly why the Commission in its wisdom excluded TV BAS Channels B5 and B6 from sharing with Part 101 Fixed Service (FS) stations nation-wide. Major Alaska news events such as the 1964 Good Friday earthquake, the 1967 Fairbanks floods, the 2004 Alaska wildfires consuming 6.7 million acres, and the 1989 Exon Valdez oil spill are all examples of a major news event that could instantly transform even a remote area of Alaska from ENG category IV to ENG category I. This is why parking is not allowed in front of fire hydrants, even though most of the time there is no fire and the parking spot must "lay fallow

<sup>&</sup>lt;sup>3</sup> GCI reply comments, at page 4.

<sup>&</sup>lt;sup>4</sup> As categorized by SBE, and as adopted in the July 3, 2002, ET Docket 95-18 Second R&O, the four categories of TV electronic news gathering (ENG) use are:

**Category I:** "Los Angeles" or "LA." Extremely heavy use, mostly split channel. There is lots of itinerant use and channel borrowing and sharing; even so, seven channels aren't enough.

**Category II:** "Metro." Spectrum is heavily used, especially during the news hours. There is some split channel use, not a lot, and some itinerant use. There is regular channel borrowing and sharing.

**Category III:** "Light." There is some electronic news gathering (ENG), some fixed link, maybe even some channels mostly vacant most of the time. Typically, a small-market, low-competition situation.

**Category IV:** "Rural." ENG is unheard of, the use is for fixed, long-haul relays to small-market TV stations, to TV translator stations, and to cable television headends. In some areas not all channels are even used.

indefinitely." It also explains why most people do not rely on fortune tellers for emergency planning. See the attached Figure 2.

5. While GCI notes that broadcasters have other frequency bands for ENG use such as 2 GHz and 13 GHz, EIBASS notes that all but two channels of the 13 GHz TV BAS band are now shared with Part 101 FS stations, that the GCI waiver, if granted, would also preclude the 6.5 GHz TV Broadcast Auxiliary Services (BAS) band, and that as a result of the General Docket 13-185 rulemaking, the Department of Defense (DoD) is now co-primary with broadcasters in the 2 GHz TV BAS band, so broadcasters are now required to share virtually all of their previously exclusive BAS spectrum. EIBASS notes that the relationship so far between DoD and broadcasters has a history of agreeing to compatible sharing with many built-in protections for both parties.

## IV. Already the "Me Too" Waivers Have Begun

6. EIBASS notes that in addition to Alaska Rural Coalition (ARC) requesting that it too be granted rule waivers for the 6.5 and 7 GHz TV BAS bands, the "reply" comments<sup>5</sup> of AT&T Services, Inc. (AT&T) indicate that it also would like the rule waivers. So now there are three camels nosing into the BAS tent. If the GCI waiver is deemed to include the entire 7 GHz TV BAS band, even though the rule section for which waiver was requested, Section 101.147(l), only confers rights to 80% of that band (*i.e.*, TV BAS Channels B1 through B4, and B7 through B10), and not the entire band, then EIBASS expects it will not be long until more "me too" waivers are requested for other states. Thus, if the Commission does not want to be inundated with similar waiver requests, no waiver of the obligation to protect the operational area of a TV Pickup station in the same band (and for which GCI, ARA and AT&T have all failed to request), and no super waiver of Section 101.147(l), to include all ten of the 7 GHz TV BAS band channels and forgo reservation of B5 and B6 to ensure that 7 GHz TV Pickup operations are not precluded by Part 101 FS links, should be granted.

## V. Why Can't GCI, et al, Use Fiber Optic Links, like AlaskaUnited?

7. EIBASS has learned that AlaskaUnited has managed to construct an extensive fiber optic cable system in Alaska; see the attached Figure 3. The Commission should ask GCI, ARA, AT&T and any other parties requesting rule waivers why they cannot construct fiber optic

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<sup>&</sup>lt;sup>5</sup> AT&T failed to submit any initial comments.

interconnects, just as AlaskaUnited has done, not even need a rule waiver, and never ever have to worry about spectrum allocations and radio frequency interference.

### **VI. Summary**

8. EIBASS does not have a problem with 60-MHz wide channels for fixed links in rural Alaska, or even contaminating the 6.5 GHz TV BAS band with fixed links rather than mobile-only operations. If GCI can frequency coordinate a 60-MHz wide channel, the equivalent of 2.4 7 GHz TV BAS channels, then fine. But EIBASS opposes a waiver of the obligation to protect the operational area of a TV Pickup station in the same band, and opposes a super-waiver of the entire 7 GHz band, because forgoing the reservation of two of the ten 7 GHz TV BAS channels for continued use only by broadcasters would eliminate the guarantee that a Part 101 FS station in the 7 GHz band could not preclude all TV Pickup ENG operations.

### **List of Figures**

- 9. The following figure has been prepared as a part of these EIBASS WT Docket 16-209 reply comments:
- 1. Copy of WQRU451 TV Pickup license.
- 2. Figure showing why "lay fallow indefinitely" is often necessary and prudent.
- 3. Map of AlaskaUnited fiber optic cable system.

Respectfully submitted,

- /s/ Dane E. Ericksen, P.E., CSRTE, 8-VSB, CBNT EIBASS Co-Chair Consultant to Hammett & Edison, Inc. Sonoma, CA
- /s/ Richard A. Rudman, CPBE EIBASS Co-Chair Remote Possibilities Santa Paula, CA

August 3, 2016

EIBASS 18755 Park Tree Lane Sonoma, CA 94128 707/996-5200 dericksen@h-e.com

### **TV Pickup Station WQRU451**

#### REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



#### **Federal Communications Commission**

**Wireless Telecommunications Bureau** 

#### RADIO STATION AUTHORIZATION

LICENSEE: Fox Sports Net Florida Inc.

ATTN: GEORGE BARBOSA FOX SPORTS NET FLORIDA INC. 500 E. BROWARD BLVD. SUITE 105 FORT LAUDERDALE, FL 33394

<b>Call Sign</b> WQRU451							
File Number							
Radio Service TP - TV Pickup							
SMSA	Station Class MO						

FCC Registration Number (FRN): 0022429625

Grant Date	Effective Date	Expiration Date	Print Date
07-29-2013	07-29-2013	02-01-2021	

#### LOCATION

Fixed Location Address or Area of Operation:

Continental US

City: County: State:

City.	county.	State.												
Loc No.	<b>Locatio</b> Contine	on Name	Lat	itude		Long	gitude		Elev	ation				tructure on No.
				FRE	QUE	NCY	PATI	IS						
Frequency (MHz)	Tol (%)	Emission Desig	EIRP (dBm)	Constr Date	Path No	Seg	Emit Loc No	Ant Hgt (m)	(dBi) Ref			AZIM (deg)		Rec Call Sign
6875.0- 6900.0	0.00038	8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	y	VARY	001	
Frequency Sp OPERATION		ition: JENCIES 6875.	.000000-69	00.000000 N	OT PI	ERMI	TTED	WITHIN 5	56.3 KM	4 OF THE	E US-C	ANADA	A BOR	DER.
6900.0- 6925.0	0.00038	8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	V	VARY	001	

#### **Frequency Special Condition:**

OPERATION ON FREQUENCIES 6900.000000-6925.000000 NOT PERMITTED WITHIN 56.3 KM OF THE US-CANADA BORDER.

#### **Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

FCC 601-M August 2007

## **TV Pickup Station WQRU451**

Licensee Name: FOX SPORTS NET FLORIDA INC.														
Call Sign: Wo	QRU451		Fil	e Number:		Print Date:								
Frequency (MHz)	Tol (%)	Emission Desig	EIRP (dBm)	Constr Date	Path No	Seg	Emit Loc No	Ant Hgt (m)	(dBi) Refl		POL	AZIM (deg)		Rec Call Sign
6925.0- 6950.0	0.00038	8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	V	VARY	001	
Frequency Spe OPERATION C		lition: UENCIES 6925.00	00000-69	50.000000 N	ОТ РІ	ERMI	TTED '	WITHIN 5	6.3 KM	OF THE	E US-C	ANADA	BOR	DER.
6950.0- 6975.0	0.00038	8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	V	VARY	001	
Frequency Spe OPERATION C		lition: UENCIES 6950.00	00000-69	75.000000 N	ОТ РІ	ERMI	TTED '	WITHIN 5	6.3 KM	OF THE	E US-C	ANADA	BOR	DER.
6975.0- 7000.0	0.00038	8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	V	VARY	001	
Frequency Spe OPERATION C		lition: UENCIES 6975.00	00000-70	00.000000 N	ОТ РІ	ERMI	TTED '	WITHIN 5	6.3 KM	OF THE	E US-C	ANADA	BOR	DER.
7000.0- 7025.0	0.00038	8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	V	VARY	001	
Frequency Spe OPERATION C		lition: UENCIES 7000.00	00000-70	25.000000 N	ОТ РІ	ERMI	TTED '	WITHIN 5	6.3 KM	OF THE	E US-C	ANADA	BOR	DER.
7050.0- 7075.0	0.00038	8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	V	VARY	001	
Frequency Spe		lition: UENCIES 7050.00	00000 70	75 000000 N	OT DI	ED MI	TTED	MITHIN 5	62 VM	OE TUE	i iie c	ANADA	DOD.	DED
6438.0	•	8 8M00D9W		01-29-2015		1	001	6.1	3.0	90.0	V	VARY		DEK.
	ON FREQU	lition: UENCY 6438.000 equency band 6425					56.3 K	M OF TH	E US-C	ANADA	BORI	DER.		
6446.0	٠,	squency band 6425 8 8M00D9W		01-29-2015	- 1		001	6.1	3.0	90.0	V	VARY	001	
	N FREQ	lition: UENCY 6446.000 quency band 6425					56.3 K	M OF TH	E US-C	ANADA	BORI	DER.		
6455.0		8 8M00D9W	20.000	01-29-2015	001	1	001	6.1	3.0	90.0	V	VARY	001	
	ON FREQ	lition: UENCY 6455.000 quency band 6425					56.3 K	M OF TH	E US-C	ANADA	BORI	DER.		
6463.0		8 8M00D9W		01-29-2015		-	001	6.1	3.0	90.0	V	VARY	001	
	N FREQ	lition: UENCY 6463.000 equency band 6425					56.3 K	M OF TH	E US-C	ANADA	BORI	DER.		
6471.0	٥,	8 8M00D9W		01-29-2015		1	001	6.1	3.0	90.0	V	VARY	001	
	N FREQ	lition: UENCY 6471.000 equency band 6425					56.3 K	M OF TH	E US-C	ANADA	BORI	DER.		
6480.0	٠,	8 8M00D9W		01-29-2015		-	001	6.1	3.0	90.0	V	VARY	001	

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## **TV Pickup Station WQRU451**

Licensee Na	me: FO	X SPORTS NE	Γ FLORID	OA INC.										
Call Sign: W	VQRU451		File	e Number	:	Print Date:								
Frequency (MHz)	Tol (%)	Emission Desig	EIRP (dBm)	Constr Date	Path No	Seg	Emit Loc No	Ant Hgt (m)	(dBi) Ref			AZIM (deg)		Rec Call Sign
	ON FREQ	dition: QUENCY 6480.00 equency band 64					56.3 K	M OF TH	E US-C	CANADA	BORI	DER.		
6488.0	· ·	38 8M00D9W		01-29-201		-	001	6.1	3.0	90.0	V	VARY	001	
Pursuant to 10	ON FREQ 1.147(j) fr	QUENCY 6488.00 equency band 64	25 – 6525 N	MHz is Mot	oile Onl	y.								
6496.0		88 8M00D9W	20.000	01-29-201	5 001	1	001	6.1	3.0	90.0	V	VARY	001	
	ON FREQ	dition: QUENCY 6496.00 equency band 64					1 56.3 K	M OF TH	E US-C	CANADA	BORI	DER.		
7025.0-	0.0003	88 8M00D9W	20.000	01-29-201	5 001	1	001	6.1	3.0	90.0	V	VARY	001	
7050.0														
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6430.0		QUENCIES 7025 88 8M00D9W		.01-29-201			OO1	WITHIN 5	6.3 KN 3.0	1 OF THE 90.0	US-C V	'ANADA VARY		DER.
Frequency Sp			20.000	01-29-201	5 001	1	001	0.1	3.0	90.0	V	VAKI	001	
OPERATION	ON FREQ	QUENCY 6430.00 equency band 64					56.3 K	M OF TH	E US-C	CANADA	BORI	DER.		
6505.0	0.0003	88 8M00D9W	20.000	01-29-201	5 001	1	001	6.1	3.0	90.0	V	VARY	001	
	ON FREQ	dition: QUENCY 6505.00 equency band 64					56.3 K	M OF TH	E US-C	CANADA	BORI	DER.		
6513.0	0.0003	88 8M00D9W	20.000	01-29-201	5 001	1	001	6.1	3.0	90.0	V	VARY	001	
	ON FREQ	dition: QUENCY 6513.00 equency band 64.					56.3 K	M OF TH	E US-C	CANADA	BORI	DER.		
6521.0	0.0003	38 4M00D9W	20.000	01-29-201	5 001	1	001	6.1	3.0	90.0	V	VARY	001	
	ON FREQ	dition: QUENCY 6521.00 equency band 64					56.3 K	M OF TH	E US-C	CANADA	. BORI	DER.		
7075.0-	٠,	38 8M00D9W		01-29-201		-	001	6.1	3.0	90.0	V	VARY	001	
7100.0														
Frequency Sp														
		QUENCIES 7075												DER.
7100.0-	0.0003	88 8M00D9W	20.000	01-29-201	5 001	1	001	6.1	3.0	90.0	V	VARY	001	
7125.0		**.*												
Frequency Sp OPERATION		dition: QUENCIES 7100	.000000-71	25.000000	NOT PI	ERMI	TTED	WITHIN 5	6.3 KM	1 OF THI	E US-C	ANADA	BOR	DER.

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### **TV Pickup Station WQRU451**

Licensee Name:	FOX	SPORTS	NET FL	ORIDA	INC.

Call Sign: WQRU451 File Number: Print Date:

#### Waivers/Conditions:

Antennas employed for mobile use over 6.1 meters may be deployed without specific prior approval of the Commission provided that the overall height of such antennas more than 6.10 meters (20 feet) above ground, including their supporting structures (whether natural formation or man-made), do not exceed any of the slope ratios set forth in Section 17.7(b).

Each use of facilities under this authorization must be prior coordinated with existing users and applicants in accordance with 101.103(d) of the Commission's Rules. If all parties agree, the coordination may be completed verbally.

Operation is prohibited within any of the quiet zones defined in Section 1.924.

Operations within 56.3 km of any International Border are not authorized.

This authorization permits the simultaneous operation of multiple transmitters as long as the technical parameters of each transmitter are consistent with the parameters specified on this authorization and each transmitter is operated in accordance with applicable FCC rules.



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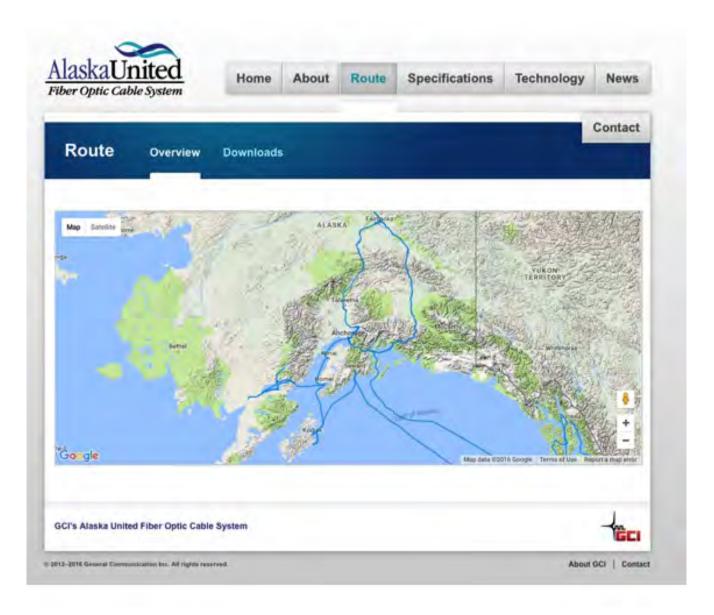
## Why Red Zones in Front of Fire Hydrants Need to "Lay Fallow Indefinitely"





Why there is "no parking" in front of fire hydrants. Like ENG spectrum, you never know in advance when or where it will be needed.

## AlaskaUnited Fiber Optic Cable System



The AlaskaUnited fiber optic cable system, taken from http://www.alaskaunited.com/route/.

### AlaskaUnited Fiber Optic Cable System

